Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1626GMS

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

| | | |
|---|---|---|
| NEWS 1 | | Web Page URLs for STN Seminar Schedule - N. America |
| NEWS 2 | | "Ask CAS" for self-help around the clock |
| NEWS 3 | DEC 23 | New IPC8 SEARCH, DISPLAY, and SELECT fields in USPATFULL/ USPAT2 |
| NEWS 4 | JAN 13 | IPC 8 searching in IFIPAT, IFIUDB, and IFICDB |
| NEWS 5 | JAN 13 | New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to INPADOC |
| NEWS 6 | JAN 17 | Pre-1988 INPI data added to MARPAT |
| NEWS 7 | JAN 17 | IPC 8 in the WPI family of databases including WPIFV |
| NEWS 8 | JAN 30 | Saved answer limit increased |
| NEWS 9 | FEB 21 | STN AnaVist, Version 1.1, lets you share your STN AnaVist visualization results |
| NEWS 10 | FEB 22 | The IPC thesaurus added to additional patent databases on STN |
| NEWS 11 | FEB 22 | Updates in EPFULL; IPC 8 enhancements added |
| NEWS 12 | FEB 27 | New STN AnaVist pricing effective March 1, 2006 |
| NEWS 13 | FEB 28 | MEDLINE/LMEDLINE reload improves functionality |
| NEWS 14 | FEB 28 | TOXCENTER reloaded with enhancements |
| NEWS 15 | FEB 28 | REGISTRY/ZREGISTRY enhanced with more experimental spectral property data |
| NEWS 16 | MAR 01 | INSPEC reloaded and enhanced |
| NEWS 17 | MAR 03 | Updates in PATDPA; addition of IPC 8 data without attributes |
| NEWS 18 | MAR 08 | X.25 communication option no longer available after June 2006 |
| NEWS 19 | MAR 22 | EMBASE is now updated on a daily basis |
| NEWS 20 | APR 03 | New IPC 8 fields and IPC thesaurus added to PATDPAFULL |
| NEWS 21 | APR 03 | Bibliographic data updates resume; new IPC 8 fields and IPC thesaurus added in PCTFULL |
| NEWS 22 | APR 04 | STN AnaVist $500 visualization usage credit offered |
| NEWS 23 | APR 12 | LINSPEC, learning database for INSPEC, reloaded and enhanced |
| NEWS 24 | APR 12 | Improved structure highlighting in FQHIT and QHIT display in MARPAT |
| NEWS 25 | APR 12 | Derwent World Patents Index to be reloaded and enhanced during second quarter; strategies may be affected |

NEWS EXPRESS FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005.
V8.0 AND V8.01 USERS CAN OBTAIN THE UPGRADE TO V8.01a AT
http://download.cas.org/express/v8.0-Discover/

| | |
|---|---|
| NEWS HOURS | STN Operating Hours Plus Help Desk Availability |
| NEWS LOGIN | Welcome Banner and News Items |
| NEWS IPC8 | For general information regarding STN implementation of IPC 8 |

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 13:26:33 ON 23 APR 2006

=>
Uploading
THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE
Do you want to switch to the Registry File?
Choice (Y/n):
Switching to the Registry File...
Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> FILE REGISTRY

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 0.21 | 0.21 |

FILE 'REGISTRY' ENTERED AT 13:26:49 ON 23 APR 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.


Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 21 APR 2006 HIGHEST RN 881539-69-1
DICTIONARY FILE UPDATES: 21 APR 2006 HIGHEST RN 881539-69-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

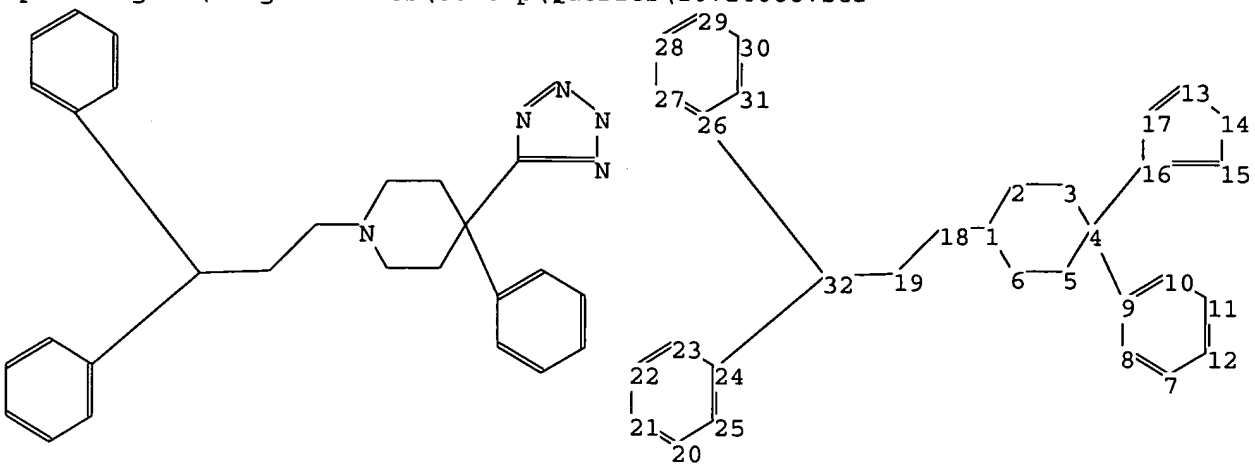
**********
* *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
* *
**********

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading C:\Program Files\Stnexp\Queries\10714066.str

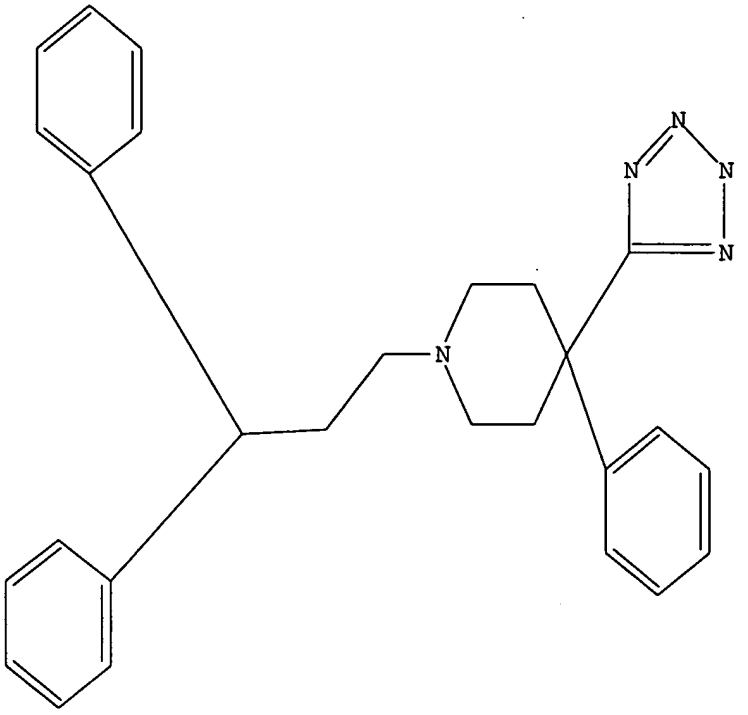



chain nodes :
18 19 32
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 20 21 22 23 24 25 26 27 28 29 30 31
chain bonds :
1-18 4-9 4-16 18-19 19-32 24-32 26-32
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12 13-14 13-17 14-15 15-16 16-17 20-21 20-25 21-22 22-23 23-24 24-25 26-27 26-31 27-28 28-29 29-30 30-31
exact/norm bonds :
1-2 1-6 1-18 2-3 3-4 4-5 5-6 13-14 13-17 14-15 15-16 16-17
exact bonds :
4-9 4-16 18-19 19-32 24-32 26-32
normalized bonds :
7-8 7-12 8-9 9-10 10-11 11-12 20-21 20-25 21-22 22-23 23-24 24-25 26-27 26-31 27-28 28-29 29-30 30-31
isolated ring systems :
containing 1 : 7 : 13 : 20 : 26 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS 19:CLASS 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR




Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 13:27:06 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 6 TO ITERATE

100.0% PROCESSED 6 ITERATIONS 2 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 6 TO 266
PROJECTED ANSWERS: 2 TO 124

L2 2 SEA SSS SAM L1

=> s l1 sss full
FULL SEARCH INITIATED 13:27:12 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 122 TO ITERATE

100.0% PROCESSED 122 ITERATIONS 11 ANSWERS

SEARCH TIME: 00.00.01

L3 11 SEA SSS FUL L1

=> FIL HCAPLUS

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 166.94 | 167.15 |

FILE 'HCAPLUS' ENTERED AT 13:27:18 ON 23 APR 2006



FILE COVERS 1907 - 23 Apr 2006 VOL 144 ISS 18
FILE LAST UPDATED: 21 Apr 2006 (20060421/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3
L4 2 L3

=> d l4 ibib abs hitstr tot

L4 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:823687 HCAPLUS
DOCUMENT NUMBER: 143:211918
TITLE: Processes for preparation of 4-tetrazolyl-4-phenylpiperidines
INVENTOR(S): Brown, Kevin; Doyle, Timothy J.; Whitehead, John W. F.
PATENT ASSIGNEE(S): Euro-Celtique S.A., Luxembourg
SOURCE: PCT Int. Appl., 181 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 2005075455 | A2 | 20050818 | WO 2005-US3170 | 20050131 |
| WO 2005075455 | A3 | 20051215 | | |

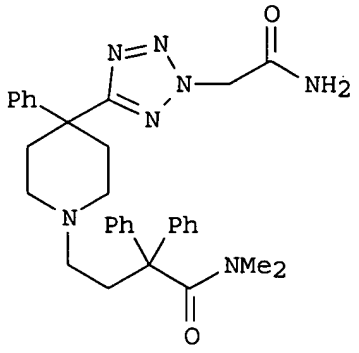
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,

LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, SM
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2004-540839P P 20040130
US 2004-552982P P 20040311

OTHER SOURCE(S): MARPAT 143:211918

GI



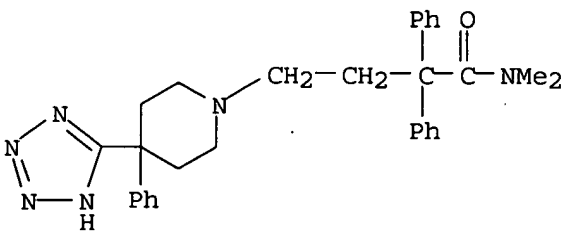
I

AB Processes are disclosed for the preparation of 4-tetrazolyl-4-phenylpiperidines. For instance, 4-cyano-4-phenylpiperidine•HCl is converted to 4-phenyl-4-(2H-tetrazol-5-yl)piperidine (water/dioxane, NaN3, ZnBr2, 90-100°, 24 h). This intermediate is reacted with (3,3-diphenyldihydrofuran-2-ylidene)dimethylammonium bromide (preparation given) (DMSO, DBU) to give N,N-dimethyl-2,2-diphenyl-4-[4-phenyl-4-(2H-tetrazol-5-yl)piperidin-1-yl]butyramide. This is treated with 2-chloroacetamide (DMSO, K2CO3, 60°, 4 h) to give I.

IT **697284-97-2P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(processes for preparation of 4-tetrazolyl-4-phenylpiperidines)

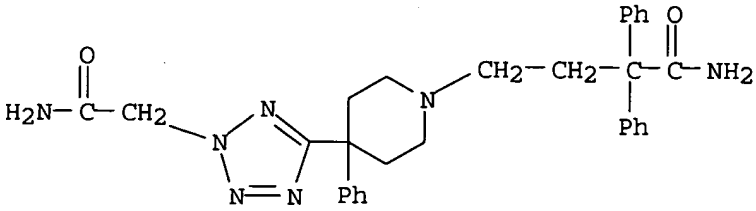
RN 697284-97-2 HCAPLUS

CN 1-Piperidinebutanamide, N,N-dimethyl-α,α,4-triphenyl-4-(1H-tetrazol-5-yl)- (9CI) (CA INDEX NAME)



IT **862287-78-3P 862287-79-4P 862287-93-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(processes for preparation of 4-tetrazolyl-4-phenylpiperidines)

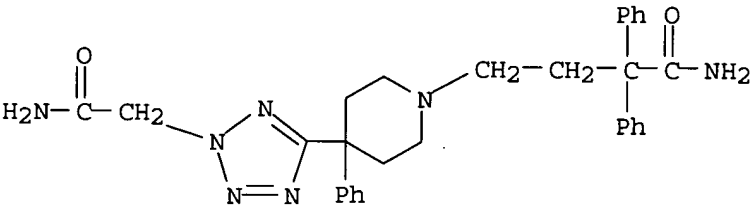
RN 862287-78-3 HCAPLUS
CN 1-Piperidinebutanamide, 4-[2-(2-amino-2-oxoethyl)-2H-tetrazol-5-yl]-α,α,4-triphenyl- (9CI) (CA INDEX NAME)



RN 862287-79-4 HCAPLUS
CN 1-Piperidinebutanamide, 4-[2-(2-amino-2-oxoethyl)-2H-tetrazol-5-yl]-α,α,4-triphenyl-, monosulfamate (9CI) (CA INDEX NAME)

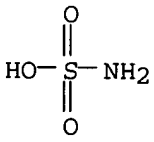
CM 1

CRN 862287-78-3
CMF C30 H33 N7 O2

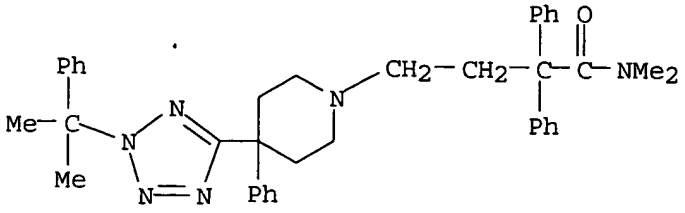


CM 2

CRN 5329-14-6
CMF H3 N O3 S



RN 862287-93-2 HCAPLUS
CN 1-Piperidinebutanamide, N,N-dimethyl-4-[2-(1-methyl-1-phenylethyl)-2H-tetrazol-5-yl]-α,α,4-triphenyl- (9CI) (CA INDEX NAME)



L4 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:453204 HCAPLUS
DOCUMENT NUMBER: 141:7125
TITLE: Preparation of 4-(tetrazol-5-yl)-4-phenylpiperidines for treating pain
INVENTOR(S): Chen, Zhengming
PATENT ASSIGNEE(S): Euro-Celtique, S.A., Luxembourg
SOURCE: PCT Int. Appl., 136 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | | DATE |
|---|---|---|---|---|---|
| WO 2004046132 | A1 | 20040603 | WO 2003-US36742 | | 20031117 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | | |
| RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | | |
| US 2004152689 | A1 | 20040805 | US 2003-714066 | | 20031113 |
| CA 2506242 | AA | 20040603 | CA 2003-2506242 | | 20031117 |
| AU 2003294313 | A1 | 20040615 | AU 2003-294313 | | 20031117 |
| EP 1562932 | A1 | 20050817 | EP 2003-789796 | | 20031117 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK | | | | | |
| BR 2003016305 | A | 20050927 | BR 2003-16305 | | 20031117 |
| NO 2005002894 | A | 20050614 | NO 2005-2894 | | 20050614 |
| PRIORITY APPLN. INFO.: | | | US 2002-427381P | P | 20021118 |
| | | | US 2003-460278P | P | 20030403 |
| | | | US 2003-488488P | P | 20030717 |
| | | | US 2003-714066 | A | 20031113 |
| | | | WO 2003-US36742 | W | 20031117 |

OTHER SOURCE(S): MARPAT 141:7125
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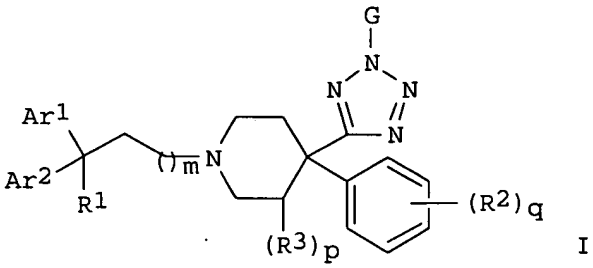

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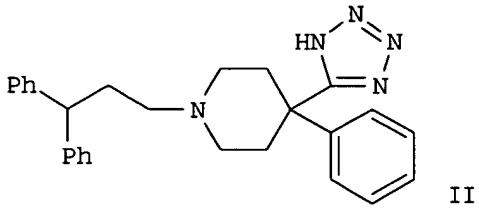


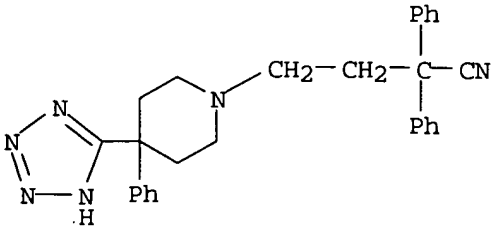
II

AB Title compds. I [Ar1 = cycloalkyl, Ph, naphthyl, etc.; Ar2 = Ph, naphthyl, anthryl, etc.; G = H, L(CH2)n-carboxy, etc.; L = CO, SO2, SO; R1 = H, carboxamido, etc.; R2-3 = halo, alkyl, alkoxy, etc.; m = 0-4; n = 1-4; p = 0-1; q = 0-3] are prepared For instance, 3,3-diphenyl-1-bromopropane is reacted with 4-cyano-4-phenylpiperidine (DMF, DIEA, 80°) and the alkylation product is converted to II (PhMe, TMSN3, Bu2SnO, reflux). Example compds. bind to μ-opioid and ORL1-receptors and are useful for the treatment of pain.

IT **697284-93-8P 697284-97-2P**
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of 4-(tetrazol-5-yl)-4-phenylpiperidines for treating pain)

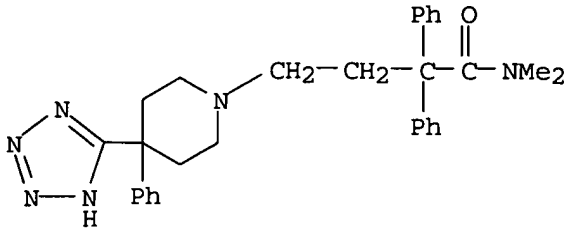
RN 697284-93-8 HCAPLUS

CN 1-Piperidinebutanenitrile, α,α,4-triphenyl-4-(1H-tetrazol-5-yl)- (9CI) (CA INDEX NAME)



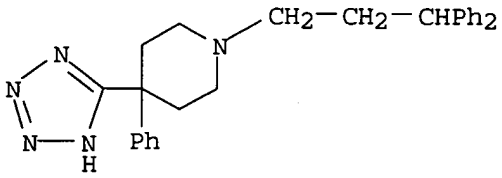
RN 697284-97-2 HCAPLUS

CN 1-Piperidinebutanamide, N,N-dimethyl-α,α,4-triphenyl-4-(1H-tetrazol-5-yl)- (9CI) (CA INDEX NAME)

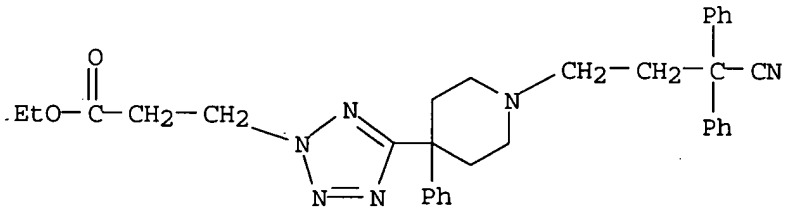


IT **697284-92-7P 697284-94-9P 697284-95-0P**
**697284-96-1P 697284-98-3P 697284-99-4P**
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of 4-(tetrazol-5-yl)-4-phenylpiperidines for treating pain)

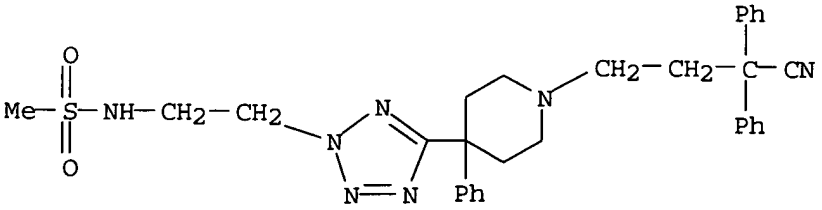
RN 697284-92-7 HCAPLUS
CN Piperidine, 1-(3,3-diphenylpropyl)-4-phenyl-4-(1H-tetrazol-5-yl)- (9CI) (CA INDEX NAME)



RN 697284-94-9 HCAPLUS
CN 2H-Tetrazole-2-propanoic acid, 5-[1-(3-cyano-3,3-diphenylpropyl)-4-phenyl-4-piperidinyl]-, ethyl ester (9CI) (CA INDEX NAME)

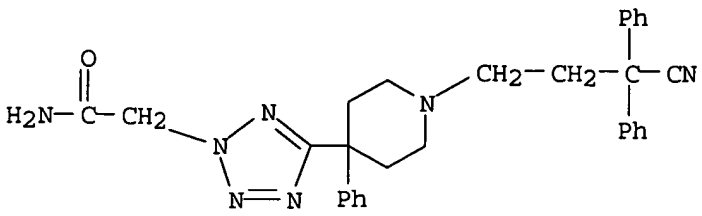


RN 697284-95-0 HCAPLUS
CN Methanesulfonamide, N-[2-[5-[1-(3-cyano-3,3-diphenylpropyl)-4-phenyl-4-piperidinyl]-2H-tetrazol-2-yl]ethyl]- (9CI) (CA INDEX NAME)

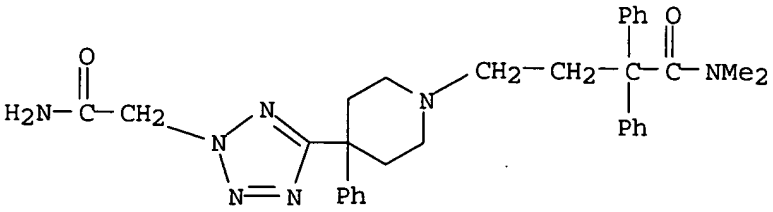


RN 697284-96-1 HCAPLUS
CN 2H-Tetrazole-2-acetamide, 5-[1-(3-cyano-3,3-diphenylpropyl)-4-phenyl-4-

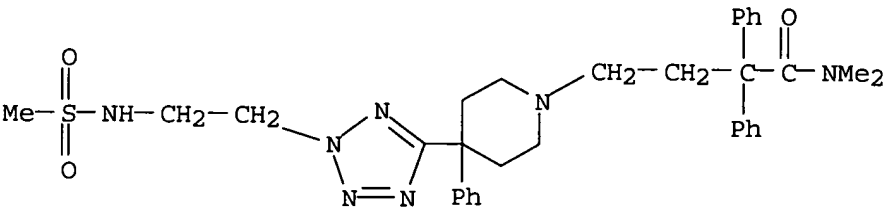
piperidinyl]- (9CI) (CA INDEX NAME)



RN 697284-98-3 HCAPLUS
CN 1-Piperidinebutanamide, 4-[2-(2-amino-2-oxoethyl)-2H-tetrazol-5-yl]-N,N-dimethyl-α,α,4-triphenyl- (9CI) (CA INDEX NAME)



RN 697284-99-4 HCAPLUS
CN 1-Piperidinebutanamide, N,N-dimethyl-4-[2-[2-[(methylsulfonyl)amino]ethyl]-2H-tetrazol-5-yl]-α,α,4-triphenyl- (9CI) (CA INDEX NAME)



=> FIL REGISTRY

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 20.34 | 187.49 |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| CA SUBSCRIBER PRICE | -1.50 | -1.50 |

FILE 'REGISTRY' ENTERED AT 13:29:27 ON 23 APR 2006


Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 21 APR 2006 HIGHEST RN 881539-69-1
DICTIONARY FILE UPDATES: 21 APR 2006 HIGHEST RN 881539-69-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

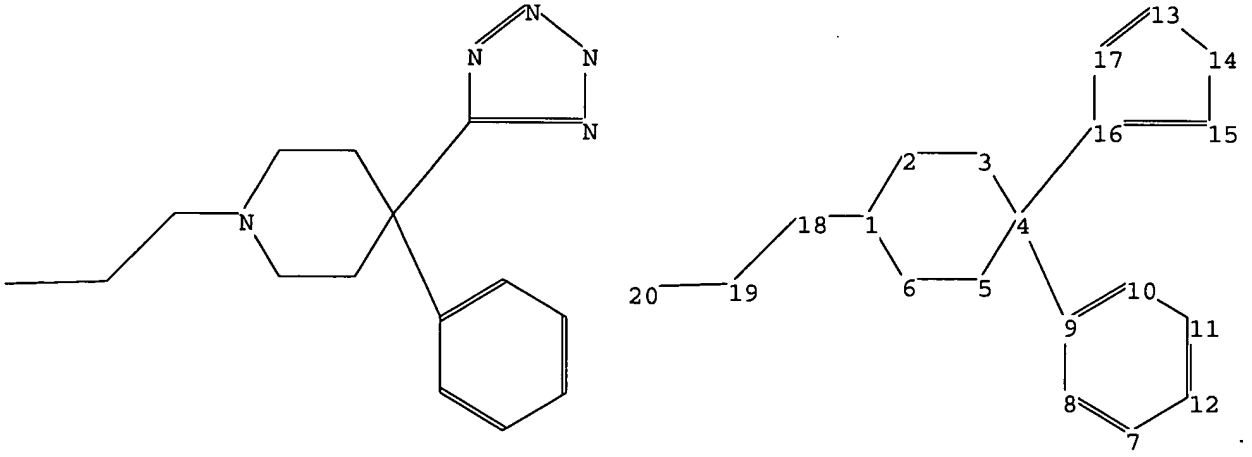
**********
* *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
* *
**********

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading C:\Program Files\Stnexp\Queries\10714066a.str



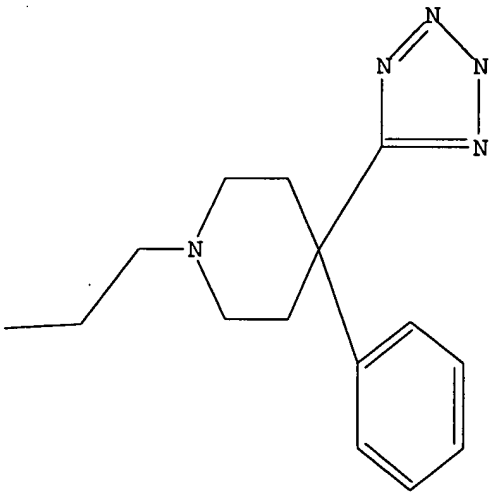

chain nodes :
18 19 20
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
chain bonds :
1-18 4-9 4-16 18-19 19-20
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12 13-14 13-17 14-15 15-16 16-17
exact/norm bonds :
1-2 1-6 1-18 2-3 3-4 4-5 5-6 13-14 13-17 14-15 15-16 16-17

exact bonds :
4-9 4-16 18-19 19-20
normalized bonds :
7-8 7-12 8-9 9-10 10-11 11-12
isolated ring systems :
containing 1 : 7 : 13 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS 19:CLASS
20:CLASS

L5 STRUCTURE UPLOADED

=> d l5
L5 HAS NO ANSWERS
L5 STR




Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SEARCH INITIATED 13:29:51 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 6 TO ITERATE

100.0% PROCESSED 6 ITERATIONS 3 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 6 TO 266
PROJECTED ANSWERS: 3 TO 163

L6 3 SEA SSS SAM L5

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=> s l5 sss full
FULL SEARCH INITIATED 13:29:59 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      122 TO ITERATE

100.0% PROCESSED      122 ITERATIONS                          17 ANSWERS
SEARCH TIME: 00.00.01

L7            17 SEA SSS FUL L5

=> FIL HCAPLUS
COST IN U.S. DOLLARS                              SINCE FILE      TOTAL
                                                     ENTRY    SESSION
FULL ESTIMATED COST                                 166.94     354.43

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)        SINCE FILE      TOTAL
                                                     ENTRY    SESSION
CA SUBSCRIBER PRICE                                   0.00      -1.50

FILE 'HCAPLUS' ENTERED AT 13:30:04 ON 23 APR 2006
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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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FILE COVERS 1907 - 23 Apr 2006  VOL 144 ISS 18
FILE LAST UPDATED: 21 Apr 2006  (20060421/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.

=> s l17
L17 NOT FOUND
The L-number entered has not been defined in this session, or it
has been deleted.  To see the L-numbers currently defined in this
session, enter DISPLAY HISTORY at an arrow prompt (=>).

=> s l7
L8            4 L7

=> d l8 ibib abs hitstr tot

L8   ANSWER 1 OF 4  HCAPLUS  COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:         2005:823687  HCAPLUS
DOCUMENT NUMBER:          143:211918
TITLE:                    Processes for preparation of 4-tetrazolyl-4-
                          phenylpiperidines
INVENTOR(S):              Brown, Kevin; Doyle, Timothy J.; Whitehead, John W. F.
```

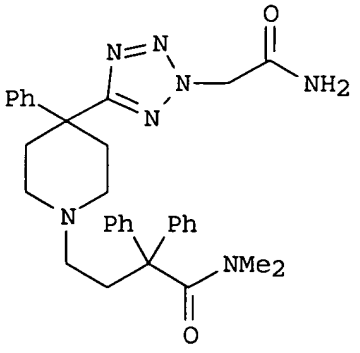
PATENT ASSIGNEE(S): Euro-Celtique S.A., Luxembourg
SOURCE: PCT Int. Appl., 181 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 2005075455 | A2 | 20050818 | WO 2005-US3170 | 20050131 |
| WO 2005075455 | A3 | 20051215 | | |

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, SM
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2004-540839P P 20040130
US 2004-552982P P 20040311

OTHER SOURCE(S): MARPAT 143:211918
GI



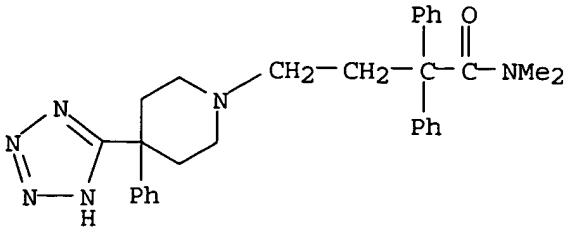
I

AB Processes are disclosed for the preparation of 4-tetrazolyl-4-phenylpiperidines. For instance, 4-cyano-4-phenylpiperidine•HCl is converted to 4-phenyl-4-(2H-tetrazol-5-yl)piperidine (water/dioxane, NaN3, ZnBr2, 90-100°, 24 h). This intermediate is reacted with (3,3-diphenyldihydrofuran-2-ylidene)dimethylammonium bromide (preparation given) (DMSO, DBU) to give N,N-dimethyl-2,2-diphenyl-4-[4-phenyl-4-(2H-tetrazol-5-yl)piperidin-1-yl]butyramide. This is treated with 2-chloroacetamide (DMSO, K2CO3, 60°, 4 h) to give I.

IT **697284-97-2P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(processes for preparation of 4-tetrazolyl-4-phenylpiperidines)

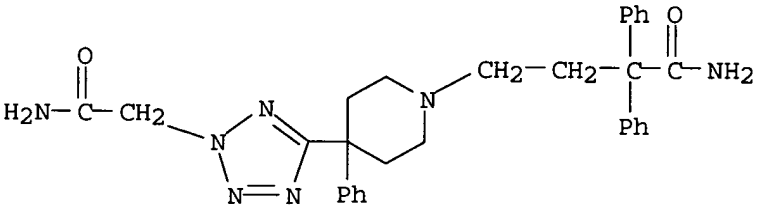
RN 697284-97-2 HCAPLUS

CN 1-Piperidinebutanamide, N,N-dimethyl-α,α,4-triphenyl-4-(1H-tetrazol-5-yl)- (9CI) (CA INDEX NAME)



IT **862287-78-3P 862287-79-4P 862287-93-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(processes for preparation of 4-tetrazolyl-4-phenylpiperidines)

RN 862287-78-3 HCAPLUS
CN 1-Piperidinebutanamide, 4-[2-(2-amino-2-oxoethyl)-2H-tetrazol-5-yl]-α,α,4-triphenyl- (9CI) (CA INDEX NAME)



RN 862287-79-4 HCAPLUS
CN 1-Piperidinebutanamide, 4-[2-(2-amino-2-oxoethyl)-2H-tetrazol-5-yl]-α,α,4-triphenyl-, monosulfamate (9CI) (CA INDEX NAME)

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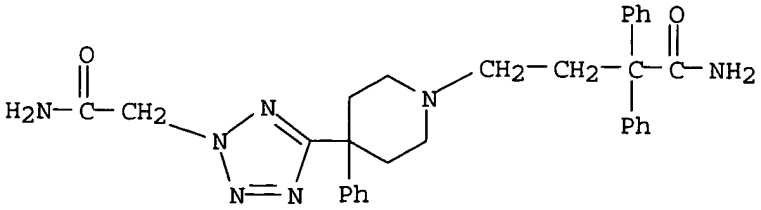
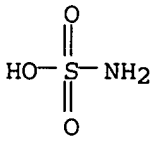
CRN 862287-78-3
CMF C30 H33 N7 O2

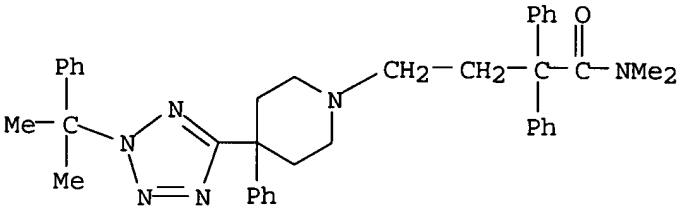


CM 2

CRN 5329-14-6
CMF H3 N O3 S



RN 862287-93-2 HCAPLUS
CN 1-Piperidinebutanamide, N,N-dimethyl-4-[2-(1-methyl-1-phenylethyl)-2H-tetrazol-5-yl]-α,α,4-triphenyl- (9CI) (CA INDEX NAME)



L8 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:453204 HCAPLUS
DOCUMENT NUMBER: 141:7125
TITLE: Preparation of 4-(tetrazol-5-yl)-4-phenylpiperidines for treating pain
INVENTOR(S): Chen, Zhengming
PATENT ASSIGNEE(S): Euro-Celtique, S.A., Luxembourg
SOURCE: PCT Int. Appl., 136 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 2004046132 | A1 | 20040603 | WO 2003-US36742 | 20031117 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
| RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| US 2004152689 | A1 | 20040805 | US 2003-714066 | 20031113 |
| CA 2506242 | AA | 20040603 | CA 2003-2506242 | 20031117 |
| AU 2003294313 | A1 | 20040615 | AU 2003-294313 | 20031117 |
| EP 1562932 | A1 | 20050817 | EP 2003-789796 | 20031117 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK | | | | |
| BR 2003016305 | A | 20050927 | BR 2003-16305 | 20031117 |
| NO 2005002894 | A | 20050614 | NO 2005-2894 | 20050614 |

PRIORITY APPLN. INFO.: US 2002-427381P P 20021118

US 2003-460278P P 20030403
US 2003-488488P P 20030717
US 2003-714066 A 20031113
WO 2003-US36742 W 20031117

OTHER SOURCE(S): MARPAT 141:7125

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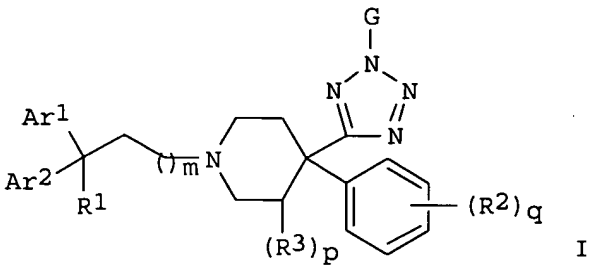

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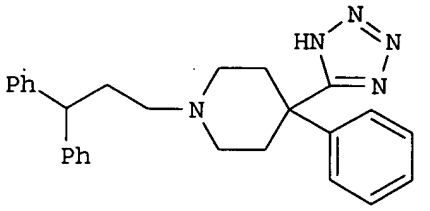


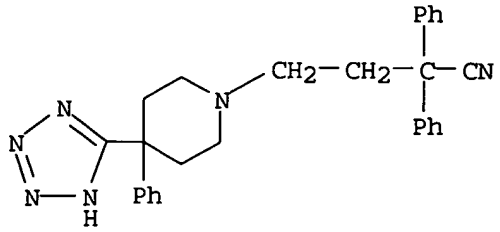
II

AB Title compds. I [Ar1 = cycloalkyl, Ph, naphthyl, etc.; Ar2 = Ph, naphthyl, anthryl, etc.; G = H, L(CH2)n-carboxy, etc.; L = CO, SO2, SO; R1 = H, carboxamido, etc.; R2-3 = halo, alkyl, alkoxy, etc.; m = 0-4; n = 1-4; p = 0-1; q = 0-3] are prepared For instance, 3,3-diphenyl-1-bromopropane is reacted with 4-cyano-4-phenylpiperidine (DMF, DIEA, 80°) and the alkylation product is converted to II (PhMe, TMSN3, Bu2SnO, reflux). Example compds. bind to μ-opioid and ORL1-receptors and are useful for the treatment of pain.

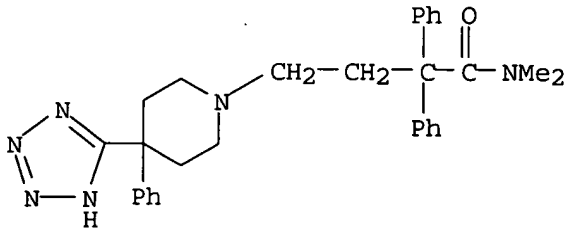
IT **697284-93-8P 697284-97-2P**
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of 4-(tetrazol-5-yl)-4-phenylpiperidines for treating pain)

RN 697284-93-8 HCAPLUS

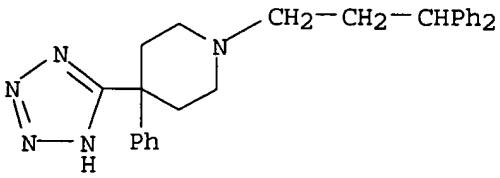
CN 1-Piperidinebutanenitrile, α,α,4-triphenyl-4-(1H-tetrazol-5-yl)- (9CI) (CA INDEX NAME)



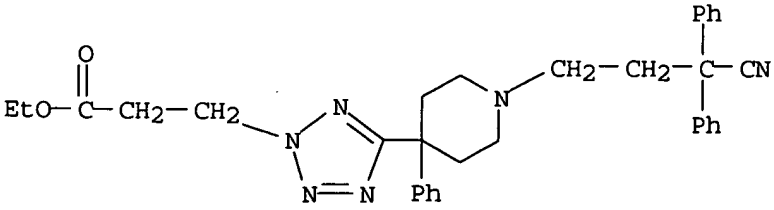
RN 697284-97-2 HCAPLUS
CN 1-Piperidinebutanamide, N,N-dimethyl-α,α,4-triphenyl-4-(1H-tetrazol-5-yl)- (9CI) (CA INDEX NAME)



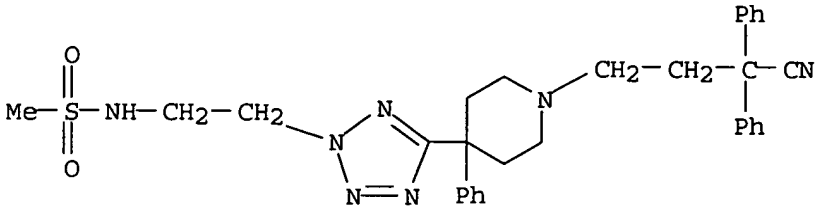
IT **697284-92-7P 697284-94-9P 697284-95-0P**
**697284-96-1P 697284-98-3P 697284-99-4P**
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of 4-(tetrazol-5-yl)-4-phenylpiperidines for treating pain)
RN 697284-92-7 HCAPLUS
CN Piperidine, 1-(3,3-diphenylpropyl)-4-phenyl-4-(1H-tetrazol-5-yl)- (9CI) (CA INDEX NAME)



RN 697284-94-9 HCAPLUS
CN 2H-Tetrazole-2-propanoic acid, 5-[1-(3-cyano-3,3-diphenylpropyl)-4-phenyl-4-piperidinyl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 697284-95-0 HCAPLUS
CN Methanesulfonamide, N-[2-[5-[1-(3-cyano-3,3-diphenylpropyl)-4-phenyl-4-piperidinyl]-2H-tetrazol-2-yl]ethyl]- (9CI) (CA INDEX NAME)



RN 697284-96-1 HCAPLUS
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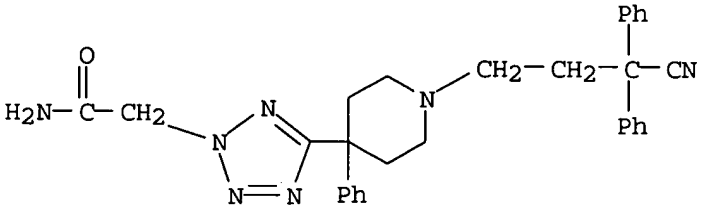
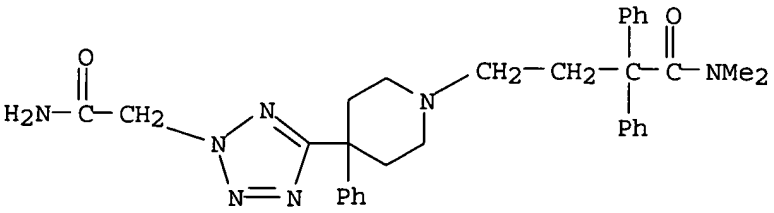
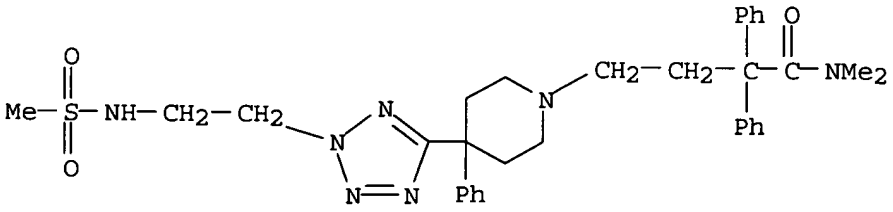


RN 697284-98-3 HCAPLUS
CN 1-Piperidinebutanamide, 4-[2-(2-amino-2-oxoethyl)-2H-tetrazol-5-yl]-N,N-dimethyl-α,α,4-triphenyl- (9CI) (CA INDEX NAME)



RN 697284-99-4 HCAPLUS
CN 1-Piperidinebutanamide, N,N-dimethyl-4-[2-[2-[(methylsulfonyl)amino]ethyl]-2H-tetrazol-5-yl]-α,α,4-triphenyl- (9CI) (CA INDEX NAME)



L8 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:855758 HCAPLUS

DOCUMENT NUMBER: 139:364829
TITLE: Preparation of heterocyclo inhibitors of potassium channel function
INVENTOR(S): Lloyd, John; Jeon, Yoon T.; Finlay, Heather; Yan, Lin; Beaudoin, Serge; Gross, Michael F.
PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA; Icagen, Inc.
SOURCE: PCT Int. Appl., 330 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 2003088908 | A2 | 20031030 | WO 2003-US11807 | 20030416 |
| WO 2003088908 | A3 | 20040527 | | |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
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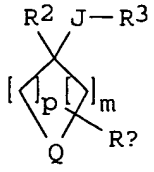
| EP 1501467 | A2 | 20050202 | EP 2003-719792 | 20030416 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK | | | | |
| JP 2005529114 | T2 | 20050929 | JP 2003-585661 | 20030416 |
| NO 2004004351 | A | 20041013 | NO 2004-4351 | 20041013 |

PRIORITY APPLN. INFO.: US 2002-374279P P 20020419
WO 2003-US11807 W 20030416

OTHER SOURCE(S): MARPAT 139:364829
GI

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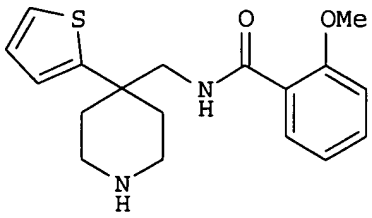


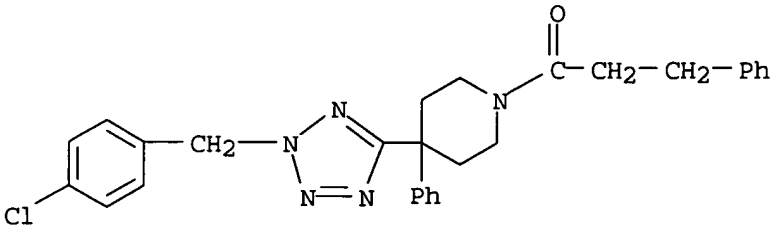

II

AB The title compds. [I; m, p = 0-3 (provided that the sum of m and p is at least 2); Q = NR1, O, S, SO, SO2; R1 = H, C(:W)NR6R7, SO2NR6R7, OCONR6R7, etc.; R2 = heteroaryl, heteroarylalkyl, aryl, etc.; J = a bond, alkylene; R3 = R5, OR5, SO2R5, etc.; R5 = CN, heteroaryl, aryl, etc.; R6, R7 = H, alkyl, OH, etc.; W = (un)substituted NH, N(CO2H), N(CN), N(SO2H), CH(NO2); Rx = H, alkyl, hydroxyalkyl, aryl, etc.], useful as inhibitors of potassium channel function (especially inhibitors of the Kv1 subfamily of voltage gated K+ channels, especially inhibitors Kv1.5 which has been linked to the ultra-rapidly activating delayed rectifier K+ current IKur) in the prevention and treatment of arrhythmia and IKur-associated conditions, were

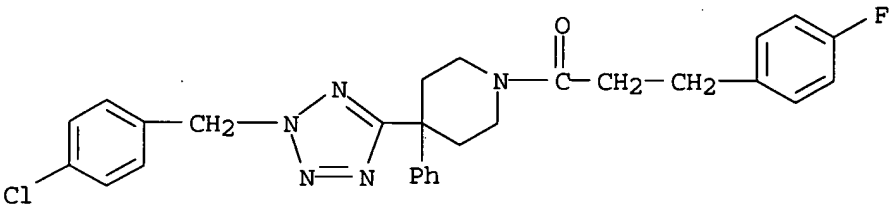
prepared E.g., a multi-step synthesis of II [starting from bis(2-chloroethyl)amine], was given. Pharmaceutical composition comprising the compound I is claimed.

IT **619291-49-5P 619291-50-8P 619291-51-9P**
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of substituted piperidines as inhibitors of potassium channel function)

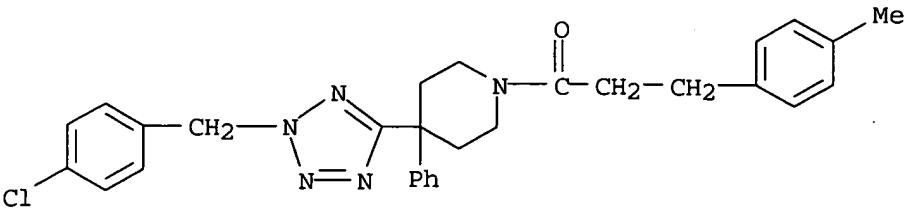
RN 619291-49-5 HCAPLUS
CN Piperidine, 4-[2-[(4-chlorophenyl)methyl]-2H-tetrazol-5-yl]-1-(1-oxo-3-phenylpropyl)-4-phenyl- (9CI) (CA INDEX NAME)



RN 619291-50-8 HCAPLUS
CN Piperidine, 4-[2-[(4-chlorophenyl)methyl]-2H-tetrazol-5-yl]-1-[3-(4-fluorophenyl)-1-oxopropyl]-4-phenyl- (9CI) (CA INDEX NAME)



RN 619291-51-9 HCAPLUS
CN Piperidine, 4-[2-[(4-chlorophenyl)methyl]-2H-tetrazol-5-yl]-1-[3-(4-methylphenyl)-1-oxopropyl]-4-phenyl- (9CI) (CA INDEX NAME)



L8 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2000:68365 HCAPLUS
DOCUMENT NUMBER: 132:122932
TITLE: Preparation of peptides, peptidomimetics, and nonpeptides as medical and agrochemical antifungals.

INVENTOR(S): Bergnes, Gustave; Berlin, Vivian; Come, Jon; Kluge, Arthur; Murthi, Krishna; Pal, Kollol
PATENT ASSIGNEE(S): Mitotix, Inc., USA
SOURCE: PCT Int. Appl., 287 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | | DATE |
|---|---|---|---|---|---|
| WO 2000003743 | A2 | 20000127 | WO 1999-US16146 | | 19990715 |
| WO 2000003743 | A3 | 20010201 | | | |
| W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | | |
| RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | | |
| US 6423519 | B1 | 20020723 | US 1998-172845 | | 19981015 |
| CA 2335381 | AA | 20000127 | CA 1999-2335381 | | 19990715 |
| AU 9951075 | A1 | 20000207 | AU 1999-51075 | | 19990715 |
| EP 1096925 | A2 | 20010509 | EP 1999-935639 | | 19990715 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | | |
| JP 2002520372 | T2 | 20020709 | JP 2000-559877 | | 19990715 |
| PRIORITY APPLN. INFO.: | | | US 1998-115846 | A | 19980715 |
| | | | US 1998-172845 | A | 19981015 |
| | | | WO 1999-US16146 | W | 19990715 |

OTHER SOURCE(S): MARPAT 132:122932
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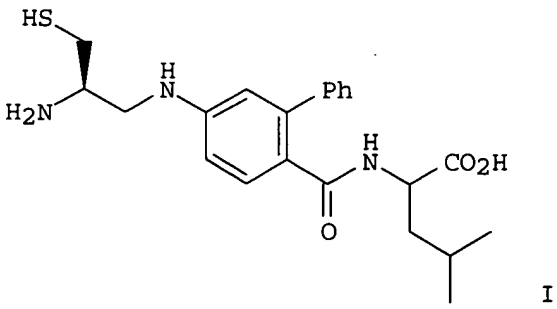


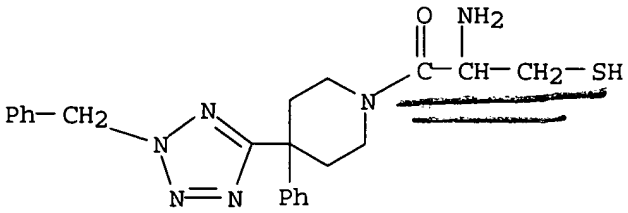

I

AB A method for inhibiting the growth of a fungal pathogen comprises contacting the pathogen with a compound, e.g., (R70)2NCH[(CH2)nR]C(Xa)NHCHR72C(Xb)NHCHR73C(Xc)NHCHR10CO2R11 [Xa, Xb, Xc = O, H2; R = SR1, SOR111, SO2R111; R1 = H, alkyl, alkenyl, aryl, acyl; R10 = alkyl, alkenyl, alkynyl, aryl, cycloalkyl, hydroxyalkyl, amino acid sidechain, etc.; R11 = H, blocking group, pharmaceutically acceptable salt; R10R11 = atoms to

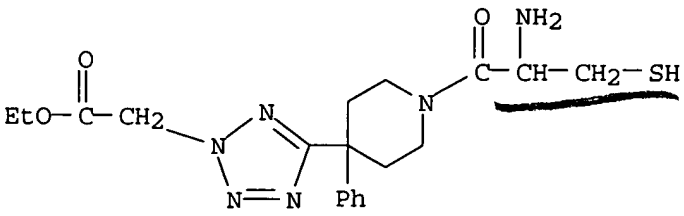
form 5-7 membered ring; R111 = alkyl, alkenyl, (CH2)mR7; R70 = H, alkyl, alkenyl, alkynyl, aryl, acyl, amino acid sidechain, etc.; R72, R73 = H, alkyl, aryl, heteroaryl, amino acid sidechain, (CH2)mR7, etc.; m, n = 0-4], which inhibits prenyl transferase activity with MIC50<25 μg/mL. Thus, title compound (I) (solution phase preparation given) inhibited GGTase with IC50<10 nM.

IT **256369-69-4 256369-76-3 256369-84-3**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(preparation of peptides, peptidomimetics, and nonpeptides as medical and agrochem. antifungals)

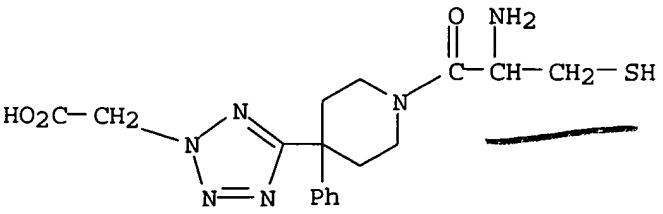
RN 256369-69-4 HCAPLUS
CN Piperidine, 1-(2-amino-3-mercapto-1-oxopropyl)-4-phenyl-4-[2-(phenylmethyl)-2H-tetrazol-5-yl]- (9CI) (CA INDEX NAME)



RN 256369-76-3 HCAPLUS
CN 2H-Tetrazole-2-acetic acid, 5-[1-(2-amino-3-mercapto-1-oxopropyl)-4-phenyl-4-piperidinyl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 256369-84-3 HCAPLUS
CN 2H-Tetrazole-2-acetic acid, 5-[1-(2-amino-3-mercapto-1-oxopropyl)-4-phenyl-4-piperidinyl]- (9CI) (CA INDEX NAME)



=> log y
COST IN U.S. DOLLARS SINCE FILE TOTAL

| | ENTRY | SESSION |
|---|---|---|
| FULL ESTIMATED COST | 25.50 | 379.93 |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| CA SUBSCRIBER PRICE | -3.00 | -4.50 |

STN INTERNATIONAL LOGOFF AT 13:31:11 ON 23 APR 2006